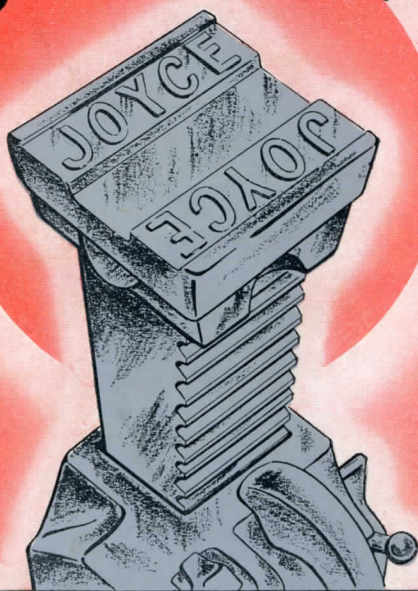


THE JACK THAT JOYCE BUILT



FOR *EVERY* LIFTING PURPOSE



Since 1873 . . .

The universal preference industry has shown for JOYCE Jacks throughout more than three score years is a tribute greatly appreciated by those of us who participate in their conception and production. We feel that it reflects strength, stability, honesty of purpose, and a tradition of quality that has been passed down from one generation to another. This heritage, which we greatly cherish and strive to uphold, plus an unconditional guarantee against defects in material, workmanship and design, is your protection when you buy a JOYCE Jack.

HUSTON BROWN

Vice President and Sales Manager

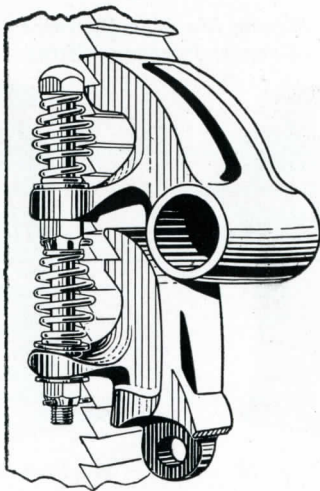


THE JOYCE-CRIDLAND COMPANY, DAYTON, OHIO

JOYCE JACKS



THE SIMPLE IDEA
THAT SET A NEW STANDARD
FOR JACKS ...



... AND TEN REASONS WHY

1. Simplified mechanism.
2. No machine screws. Parts cannot work loose or get out of adjustment.
3. Barrel shaped springs guaranteed to a million compressions.
4. Weight reduced, tensile strength increased ten percent.
5. Jack so designed that lifting efficiency of operator is increased thirty percent.
6. Working parts enclosed and protected from dirt.
7. One inch more lift than competing models of same height.
8. Reversing lever conveniently placed at top of jack.
9. Steel lever furnished with every jack.
10. Every jack tested and guaranteed to lift rated tonnage.

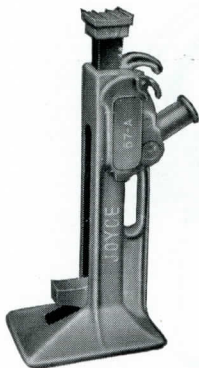


JOYCE JACKS

SINGLE ACTING AUTOMATIC LOWERING JACKS

5 Tons Capacity

*For Mining Machine Operators and
General Purpose Lifting*



No. 67-A



No. 67-A TRIP

These JOYCE Ratchet Lever Jacks include all late improvements and are particularly adapted for mining machine operators, road and building contractors, and general industrial use. Light weight combined with 5-tons lifting capacity make them popular general purpose jacks. Working parts are heat treated and rust proof; enclosed, they are protected from dirt, and cannot work loose and get lost. Both models are made with a combination automatic lowering and trip device. Rack Bar can be instantly tripped to lowest position when not under load, thus saving time of operator.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
66-A Trip	5	14	7½	21	\$15.00
67-A	5	16½	9	25	16.00
67-A Trip	5	16½	9	25	16.00

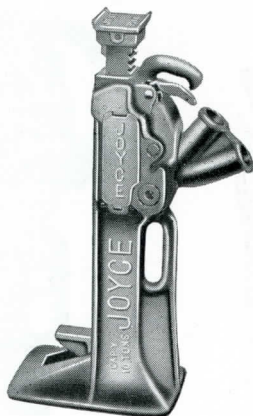
JOYCE JACKS



SINGLE ACTING AUTOMATIC LOWERING JACKS

10 Tons Capacity

For General Industrial Use



No. 76-A

Compare this 10-ton JOYCE Ratchet Lever Jack with any other of similar capacity. Note two important points: (1) There is a whole inch more rise. (2) The longer toe gives better support. In addition all working parts are enclosed. It is built without a machine screw—nothing to get loose, lost or out of adjustment. Handy reversing lever near top of jack. In universal demand by railroads, contractors, riggers, wreckers, bridge builders, and fleet owners. Furnished with double lever socket and steel operating lever.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
76-A	10	22	13	59	\$25.00



JOYCE JACKS

SINGLE ACTING AUTOMATIC LOWERING JACKS

15 Tons Capacity

*For Railroads, Contractors,
Truckers, Riggers and Bridge Builders*



No. 1922-A



No. 1928-A

Extra heavy base with foot forged to the rack bar insuring maximum strength at this point. Jack handled easily because it is in perfect balance when lifted by convenient carrying handles.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
1922-A	15	22	13	86	\$38.00
1928-A	15	28	19	94	40.00

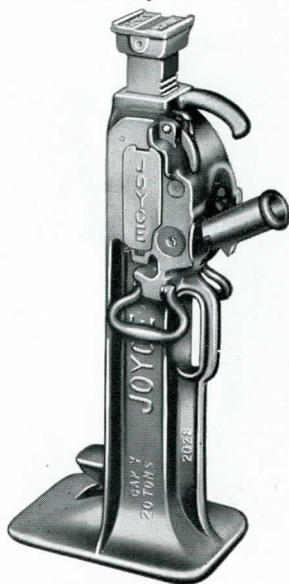
JOYCE JACKS



SINGLE ACTING AUTOMATIC LOWERING JACK

20 Tons Capacity

*For Heavy Duty Service in Oil Fields, on Railway
Car Repair, by General Contractors and
Machinery Movers*



No. 2028

The "Bearcat" is a bear for service. Malleable iron frame; triple-toothed pawls; rugged construction throughout. Convenient well balanced carrying handles. JOYCE pioneered this popular jack to meet increasing load requirements.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
2028	20	28	19	106	\$45.00

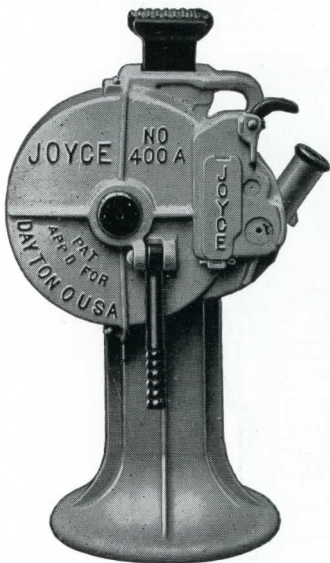


JOYCE JACKS

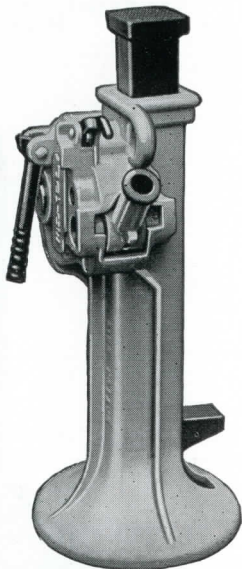
SINGLE ACTING GEARED RATCHET LEVER JACKS

25 to 50 Tons Capacity

For Railway and Heavy Industrial Service



No. 400-A



No. 290-AF

Built to withstand rough usage. Particularly adapted to lifting loaded freight cars. With equal manpower these new style Lever Jacks will lift as much as any High Speed Ball Bearing Jack, and do it $37\frac{1}{2}$ percent faster. They cannot trip or drop the load. No. 290-AF only furnished with foot lift.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
290-A	25	27	16	156	\$100.00
290-AF	25	27	14	160	110.00
295-AA	35	28	17	190	135.00
400-A	50	28	15	245	190.00
401-A	50	36	23	296	210.00



SINGLE ACTING AUTOMATIC LOWERING JACK

12 Tons Capacity

For Railroad Passenger Car Truck Work

Designed for railroad terminal and shop use, where drop-pit is not available. After the car has been raised, the truck is run out from under. Place one of these jacks on each side of the truck, engage the long foot under the side rail of the frame, and jack sufficiently high for the center pedestal to clear the journal box, both center and end wheels can be replaced at same time.



Jack No.	Capacity Tons	Height of Foot Inches	Rise Inches	Weight Pounds	List Price
75	12	25	37½	150	\$100.00



SINGLE ACTING AUTOMATIC LOWERING JACK

7½ Tons Capacity

For Trucks, Trailers and Airplanes

For Trucks, Trailers and Airplanes regularly furnished with 12-inch base but an 18-inch base is available for lifting heavy transport planes. The height can be reduced or increased by changing the length of 2½" pipe used as the standard. Prices on special sizes on request.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
70	7½	32	21½	65	\$35.00

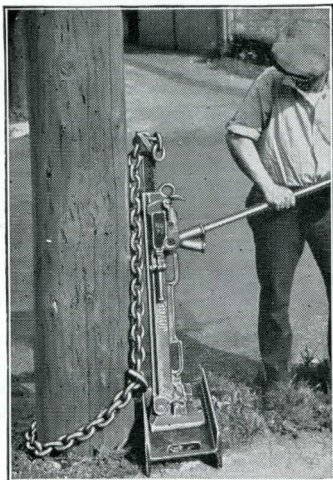


JOYCE JACKS

SINGLE ACTING AUTOMATIC LOWERING JACK

15 Tons Capacity

For Pulling Poles



No. 77

The No. 77 is a standard tool with most large telephone, telegraph and power and light companies for pulling, straightening or moving poles. The mechanism is of the single acting, automatic type, with an additional tripping feature whereby the lifting rack can be dropped when not supporting the load. The jack can be securely locked to the hinged base by means of a sturdy foot-operated pawl. Equipment includes eight feet of $\frac{5}{8}$ -inch specially heat-treated chain, with large pear link at end, and a steel lever. A two-foot section of I-beam for base support, furnished, if specified.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
77	15	38	24	90	\$70.00



SINGLE ACTING AUTOMATIC LOWERING JACK

For Handling Cable Reels



No. 76-AC

Used in pairs for supporting the ends of a bar on which a cable reel, rolled belting, or a wire rope reel is suspended. The swivel top will take a reel axle $3\frac{3}{4}$ inches in diameter, the two upper hooks a 3-inch axle and the two lower hooks a $2\frac{1}{4}$ -inch axle. Weight 110 lbs. The jack is bolted to a heavy corrugated steel channel base. The base will not slip—holding the jack absolutely rigid. For screw type cable reel jacks, see page 26.

Jack No.	Height to Top Inches	Height 4th Hook	Height 3rd Hook	Height 2nd Hook	Height 1st Hook	Rise Inches	List Price
76-AC	40	33	24	18	12	12	\$50 00
76-AC3	$24\frac{1}{2}$	24	18	12	12	45.00



JOYCE JACKS

SINGLE ACTING AUTOMATIC LOWERING JACK

15 Tons Capacity

*For Raising Boilers and Engines,
Moving Machinery and Heavy Motor Truck Service*



No. 78
Jack only



No. 78
Complete

The No. 78 Emergency Jack is a popular number in the oil fields and with public utilities, contractors, well drillers, riggers, truckers and for shop repair service.

It lifts, lowers, pushes or pulls from any position and at all angles. Any link of the steel chain will engage in the recess in the forged cap so that an object can be lifted from the front or either side of the jack.

The equipment includes 5 feet of $\frac{1}{2}$ -inch forged steel chain with a lifting hook at one end and a small hook for looping at the other; also a steel lever bar. Without chain and bar, list price \$36.00.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Jack Pounds	Weight Complete Pounds	List Price
78	15	22	12½	60	97	\$48.00

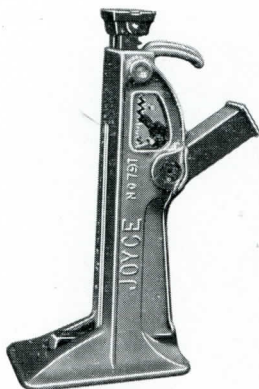
JOYCE JACKS



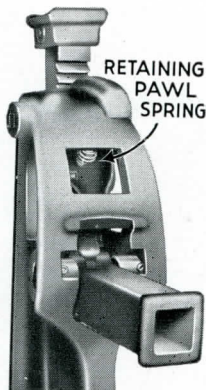
SINGLE AND DOUBLE ACTING TRIP TRACK JACKS

15 Tons Capacity

For Track Construction, Surfacing and Ballasting



No. 791



Operating Mechanism

Single-Acting Jacks are equipped with barrel-shape actuating springs as shown above. They require less manpower and can be set at any angle. No. 791 is most popular size and, when specified, is furnished with special built-up base for sliding under rail. No. 731 is a special track lining jack without head cap. Double-Acting Types are faster, raising the load on both up and down strokes.

All Track Jacks furnished with square sockets for use with a lining bar. Round sockets and steel lever furnished at \$1.00 additional to list prices below.

SINGLE ACTING

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
731	15	10	5	40	\$19.00
791	15	22	13	58	21.00
691	15	28	19	68	27.00

DOUBLE ACTING

1-A	15	22	13	66	21.00
6-A	15	28	19	73	27.00

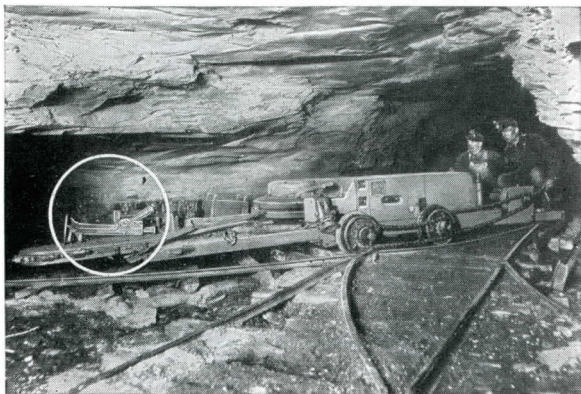


JOYCE JACKS

PLAIN LEVER JACKS

2 to 15 Tons Capacity

For Mine Work and General Service



JOYCE No. 4-AM Jack (in circle) is a part of this cutting machine's standard equipment

Mine water and coal dust have a very deteriorating effect upon spring operated mechanisms. JOYCE Plain Lever Jacks are built without springs and with the fewest number of operating parts. There are but four parts; frame, bar, pawl and lever trunion. Dirt and dust will not clog working parts. The pawl pin extends beyond side of frame, in the "M" series listed on page 13, and jack can be lowered notch by notch or tripped instantly while under load. Finger pinching positively prevented. Safe and easy to use. Invaluable for maintaining industrial and mine tracks, as well as for conveyor loading and mine-cutting machine leveling. Small socket fits steel lever used with mining machines. The most popular mine jack on the market.



PLAIN LEVER JACK

4 Tons Capacity
For Mine Timbering



No. 4-AM



Operating
Mechanism

32-AM is a special lever jack designed for raising roof timbers in tunnels and mines. Two jacks are used at once, one being placed under each end of the timber to be raised. The jacks are then run up until the timber is in position, when props are inserted and the jacks removed.



No. 32-AM

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
1-AM	2	16	8	28	\$12.00
2-AM	3	18	10	30	12.00
4-AM	4	19	10	39	15.00
4-M	5	22	13	46	17.00
10-AM	10	23	12	66	24.00
10	10	27	16	76	24.00
6	15	27	14	95	30.00

TRAILER JACK

4-F	4	36	30	55	34.00
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MINE TIMBERING JACK

32-AM	4	44	30	70	38.50
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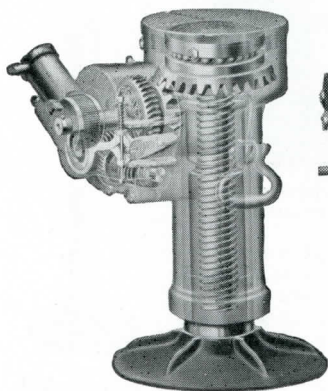


JOYCE JACKS

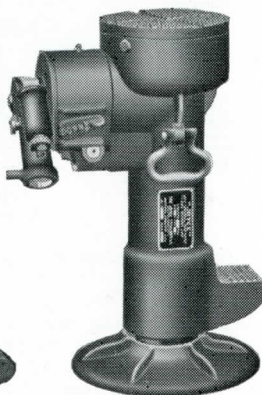
HIGH SPEED SELF LOWERING JACKS UPRIGHT TYPE

50 to 100 Tons Capacity

*For Railroads, Cement Mills, Oil Well Drillers
and Contractors*



Plain Style



With Foot

Self-lowering jacks have largely replaced hydraulic jacks for heavy lifting. The main screw is of high pitch, resulting in high efficiency and also making jacks self-lowering. A brake device controls the lowering. The ratio of the gears gives tremendous power and the ratchet makes it possible to use short or long lever strokes as the conditions require. When ordering, add "F" to jack number when foot lift style is wanted.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price	
					Plain	With Ft.
1278	50	24	13	270	\$210.00	\$225.00
1279	50	26	15	280	210.00	225.00
1288	75	24	10	250	285.00	305.00
1289	75	26	12	350	285.00	305.00
1299	100	26	12	398		310.00

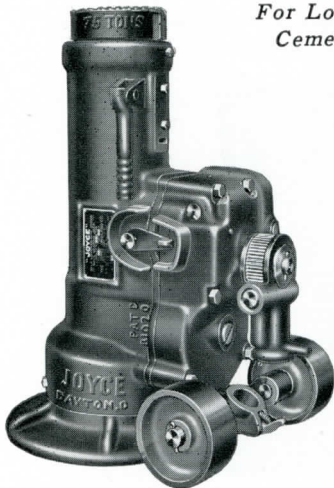
JOYCE JACKS



HIGH SPEED SELF LOWERING JACKS INVERTED TYPE

50 to 100 Tons Capacity

*For Locomotive Shops,
Cement Plants, Etc.*



For unusually heavy service. Load lowers under positive control of operator. The type pictured is Thumb Control. The "A" type is Crank Down Control—the jack being lowered by a crank. Both types are of the same general construction—the difference being in the method of lowering. Furnished as standard with wheels, unless otherwise specified.

THUMB CONTROL TYPES

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price	
					Stand-ard	Without Wheels
1378	50	24	13	297	\$225.00	\$210.00
1379	50	26	15	308	225.00	210.00
13711	50	30	19	343	245.00	230.00
13712	50	36	26	375	265.00	250.00
1386	75	20	6	340	300.00	285.00
1388	75	24	10	350	300.00	285.00
1389	75	26	12	360	300.00	285.00
1399	100	26	12	360	320.00	305.00

CRANK DOWN TYPES

1386A	75	20	6	340	300.00	285.00
1388A	75	24	10	350	300.00	285.00
1389A	75	26	12	360	300.00	285.00
1399A	100	26	12	360	320.00	305.00

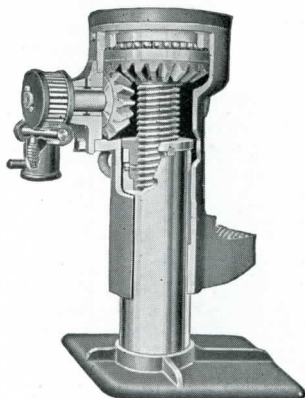


JOYCE JACKS

STANDARD SPEED BALL BEARING GEARED SCREW JACKS UPRIGHT TYPE

25 to 75 Tons Capacity

*For Contractors, Handling Heavy Machinery
and Bridge Service*



No. 160-A

Heavy loads may be maintained for long periods of time in absolute safety on this type of jack. Not affected by weather conditions or rough handling. All sizes are of foot lift type for picking up low-lying loads and are regularly furnished with large rectangular base. Round bases can be supplied, if wanted, but rectangular bases are carried in stock.

Jack No.	Capacity Tons	Height Inches	Inches Rise	Weight Pounds	List Price
154-A	25	22	12	119	\$ 90.00
155-A	25	26	16	133	96.00
158-A	35	22	12	180	130.00
160-A	35	27	17	208	138.00
165-A	50	26	16	230	150.00
170-A	75	27	16	380	200.00

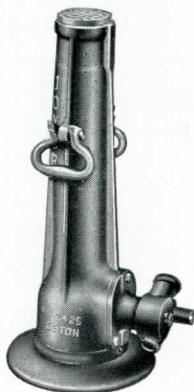
JOYCE-JACKS



STANDARD SPEED BALL BEARING GEARED SCREW JACKS INVERTED TYPE

25, 35 and 50 Tons Capacity

*For Locomotive and Bridge Work,
Ship Building and Heavy Lifting*



No. 2425

Machine-cut screw and gears of alloy steel, heat treated. Requires no oiling. Ball bearing, screw, gear and pinion all enclosed and packed in grease. Positive safety stop for ram. High grade malleable iron frame. Jacks can be operated in any position. Heavy loads lifted with minimum of exertion. These jacks are extensively used for extra heavy lifting where there is small clearance for ram. Furnished only with round base.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
2425	25	24	17	90	\$ 85.00
2435	35	24	15	150	125.00
2635	35	26	17	165	135 00
2450	50	24	14	185	140.00

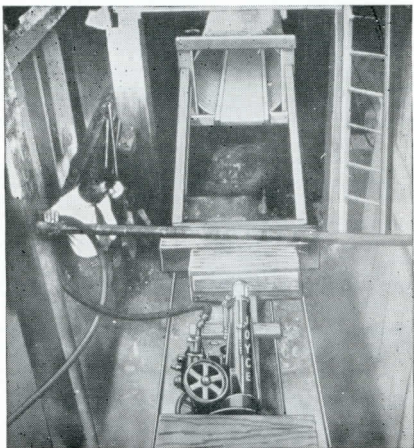


JOYCE JACKS

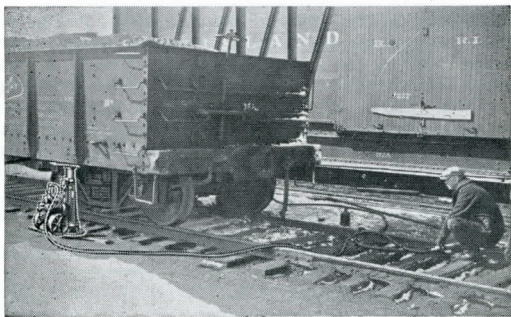
JACK H AIR MOTOR DRIVEN BALL BEA

50 to 100 Ton

For Locomotives, Coaches,



Pushing Culvert Under Embankment



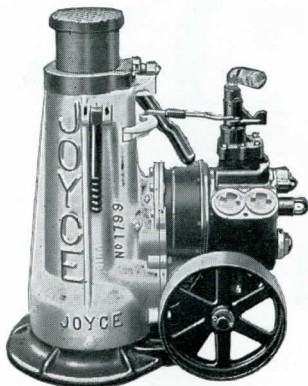
Raising Loaded Coal Car



HOISTS AIR-OPERATED GEARED SCREW TYPE

Capacity

Loaded Cars and Bridges



Compressed air replaces man power and saves approximately nine-tenths of the time required for jacking a load by hand. Automatic shut-offs assure positive safety. Lowered by reversing motor — not self-lowering. Alemite lubrication. Powered with a Heavy Duty Ingersoll-Rand motor. Capacities shown are for 90 lbs. per sq. in. air pressure. Prices on hose and couplings furnished on request.

Hoist No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price Each
17710	50	28	16 $\frac{1}{2}$	390	\$468.75
17712	50	36	24 $\frac{1}{2}$	440	487.50
1799	75	26	13 $\frac{3}{4}$	460	562.50
1799A	100	26	13 $\frac{3}{4}$	460	562.50
17915	75	44	30	620	656.25



JOYCE JACKS

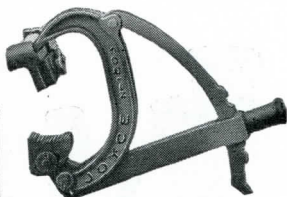
JOURNAL JACKS BALL BEARING SCREW TYPE

15 to 50 Tons Capacity

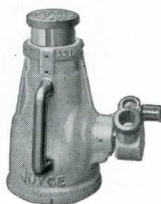
*For Car Shops and Journal Inspection
Also for Industrial and Oil Field Service*



No. 151-B



No. 1005



No. 1025



No. 1031

Jacks Nos. 1025, 1035 and 151-B are used where a short powerful lift is required. The No. 1031 is a universal suspension journal jack. No. 1005 for empty cars only. Jacks Nos. 1015-A, 1025 and 1035-A are constructed with special heat treated aluminum alloy frames. Extremely light and very durable.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
1015	15	10	5	36	\$25.00
1025	25	10	5	36	36.00
151-B	25	14	8	52	45 00
1035	35	10	5	42	55.00
153-J	50	10	4 $\frac{1}{4}$	69	95.00

ALUMINUM FRAME TYPES

1015-A	15	10	5	25	32.00
1025-A	25	10	5	25	45 00
1035-A	35	10	5	35	65.00

SUSPENSION TYPES

1031	----	----	----	50	70.00
1005	----	----	----	32	35.00



MALLEABLE IRON BELL BASE SCREW JACKS

15, 25 and 35 Tons Capacity

*With Oil Retaining Base
For General Purpose Lifting*



Six Way



Ratchet

Far superior to ordinary grey iron Jack Screws, these jacks have a certified malleable iron base with closed bottom, and a machinery steel screw with milled thread. The bell base forms an oil reservoir and also protects the screw from dirt and grit.

A special dust-proof cap, having a bearing surface of the entire diameter of the screw, reduces friction to a minimum and gives easy movement to the jack. Special design screw gives great lifting strength. Furnished with either six-way or spring ratchet head.

Jack No.	Cap. Tons	Hgt. Ins.	Rise Ins.	Diam. of Screw	Wgt. Lbs.	List Price	
						6-Way	Ratchet
98	15	8	4	2	16	\$ 7.00	\$ 9.50
101	15	10	5	2	24	9.00	11.50
102	15	12	6	2	29	10.00	12.50
103	15	14	8	2	32	11.00	13.50
121	25	12	5	2 1/2	36	15.50	18.25
123	25	16	8	2 1/2	47	18.50	21.25
125	25	20	13	2 1/2	65	21.00	23.75



JOYCE JACKS

"JACKMASTER" LOCOMOTIVE SCREW JACKS

5 to 36 Tons Capacity

With Positive Safety Stop



The housing is solid (Dirt-Proof) and perfectly bell shaped. One-piece screw of special steel with bottom thread closed to give a positive safety stop—you can't run it out too far.

Sizes conforming to S. P. R. 97-30, Simplified Practice Division, Dept. of Commerce. Steel levers sent only when ordered and at small extra charge.

Screw Diam.	Tons Cap.	Screw Diam.	Tons Cap.
1 in.	5	2 in.	20
1¼ in.	10	2½ in.	28
1½ in.	12	3 in.	36
1¾ in.	16		

Size Ins.	Net Wgt.	O'all Ht. In.	List Price	Size Ins.	Net Wgt.	O'all Ht. In.	List Price
1 x 6	6	8	\$2.60	2 x 6	18	9½	\$ 5.25
1¼ x 4	8	6½	2.90	2 x 8	22	11½	6.00
1¼ x 6	10	8½	3.10	2 x 10	26	13½	6.75
1¼ x 8	11	10½	3.40	2 x 12	30	15½	7.50
1¼ x 10	13	12½	3.80	2 x 14	35	17½	8.25
1¼ x 12	15	14½	4.20	2 x 16	37	19½	9.25
1½ x 4	9	6¾	3.25	2 x 18	42	21½	10.25
1½ x 6	11	8¾	3.75	2½ x 6	27	10	7.75
1½ x 8	14	10¾	4.25	2½ x 8	31	12	8.75
1½ x 10	17	12¾	4.75	2½ x 10	35	14	9.75
1½ x 12	19	14¾	5.25	2½ x 12	40	16	10.75
1½ x 14	21	16¾	6.00	2½ x 14	43	18	12.00
1¾ x 6	14	9	4.50	2½ x 16	50	20	13.25
1¾ x 8	18	11	5.00	2½ x 18	56	22	14.50
1¾ x 10	20	13	5.75	2½ x 20	60	24	15.75
1¾ x 12	25	15	6.25	3 x 8	46	13	17.50
1¾ x 14	29	17	6.75	3 x 14	62	19	19.50
1¾ x 16	32	19	7.50	3 x 18	78	23	22.00
2 x 5	15	8½	5.00	3 x 24	103	29	25.75



HOUSE RAISING JACKS

20, 25, 35 and 45 Tons Capacity



Screw Dia.	Tons Cap.
1 3/4	20
2	25
2 1/2	35
3	45

Size	List	Size	List	Size	List
1 3/4 x 12	\$ 4 80	2 1/2 x 16	\$ 9.60	2 1/2 x 60	\$ 21.30
1 3/4 x 14	5.10	2 1/2 x 18	10.20	3 x 18	17.00
1 3/4 x 16	5.40	2 1/2 x 20	10.80	3 x 20	17.60
1 3/4 x 18	5.70	2 1/2 x 22	11.30	3 x 24	19.20
1 3/4 x 20	6.00	2 1/2 x 24	11.90	3 x 26	20.00
2 x 12	6.00	2 1/2 x 26	12.40	3 x 28	20.80
2 x 14	6.40	2 1/2 x 28	12.90	3 x 30	21.60
2 x 16	6.80	2 1/2 x 30	13.40	3 x 32	22.40
2 x 18	7.20	2 1/2 x 32	13.90	3 x 34	23.20
2 x 20	7.60	2 1/2 x 34	14.40	3 x 36	24.00
2 x 22	8.00	2 1/2 x 36	14.90	3 x 38	24.80
2 x 24	8.40	2 1/2 x 38	15.50	3 x 40	25.60
2 x 26	8.80	2 1/2 x 40	16.00	3 x 42	26.40
2 x 28	9.20	2 1/2 x 42	16.50	3 x 44	27.20
2 x 30	9.60	2 1/2 x 44	17.10	3 x 46	28.00
2 x 32	10.00	2 1/2 x 46	17.60	3 x 48	28.80
2 x 34	10.40	2 1/2 x 48	18.10	3 x 50	29.60
2 x 36	10.80	2 1/2 x 50	18.60	3 x 52	30.40
2 x 38	11.20	2 1/2 x 52	19.10	3 x 54	31.20
2 x 40	11.60	2 1/2 x 54	19.70	3 x 56	32.00
2 1/2 x 12	8.50	2 1/2 x 56	20.30	3 x 58	32.80
2 1/2 x 14	9.00	2 1/2 x 58	20.80	3 x 60	33.60

CAST IRON JACK SCREWS

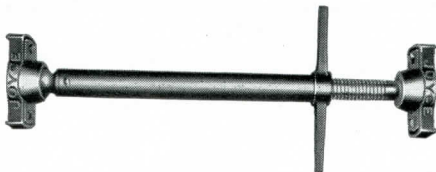
Cast with seamless threads; insuring smooth, uniform operation. Used by house movers, also for shoring work, and on many other kinds of industrial jobs. They save time and labor on all sorts of ingenious applications.



Diameter of Screw	Height Overall	Size of Plate	Length of Nut	List Price
3 in.	18 in.	6 in sq.	6 in.	\$ 8.25
3 "	20 "	6 "	6 "	8.50
3 "	22 "	6 "	6 "	8.75
3 "	24 "	6 "	6 "	9.00
3 "	26 "	6 "	6 "	9.50
3 "	28 "	6 "	6 "	10.00
3 "	30 "	6 "	6 "	10.50
3 "	32 "	6 "	6 "	11.00
3 "	34 "	6 "	6 "	11.50
3 "	36 "	6 "	6 "	12.00



TRENCH or SEWER BRACES



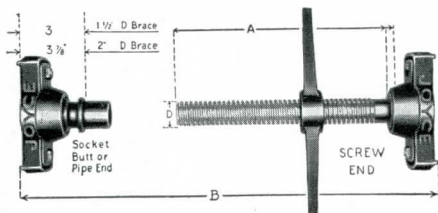
These braces provide the safest and most economical bracing on all trench jobs. The screws are steel and the wing nut is drop forged steel, which safeguards against bending or breaking.

JOYCE Trench Braces can be installed quickly. The ball and socket joint at each end permits easy adjustment to any angle. Adapted to any width trench by using longer or shorter lengths of standard black pipe. The following specifications include pipe.

Pipe and Screw Diam.	"A" Length of Screw Inches	"B" Length of Brace Closed Inches	Length of Brace Open Inches	"C" Length of Pipe Inches	Safe Extension of Screw Inches	Weight Per Dozen Lbs.	List Price Per Dozen
1½	10	16	22	8½	6	190	\$46.00
1½	12	18	25	10½	7	198	46.00
1½	14	21	30	13½	9	215	48.00
1½	14	24	33	16½	9	224	48.00
1½	16	27	37	19½	10	240	52.00
1½	16	30	40	22½	10	246	52.00
1½	18	36	47	28½	11	270	54.00
1½	18	42	53	34½	11	285	56.00
1½	18	48	58	40½	10	300	58.00
2	18	36	46	26	10	517	102.00
2	18	42	52	32	10	538	104.00
2	18	48	58	38	10	560	106.00
2	18	54	64	44	10	590	108.00
2	18	60	70	50	10	604	110.00



TRENCH BRACE FITTINGS



Furnished without pipe. The addition of a piece of standard gas pipe, cut to the required length and drilled with small hole at one end for the insertion of cotter pin, completes the brace. Steel levers sent only when ordered and will be charged extra.

"D" Diam. of Screw Inches	"A" Length of Screw Inches	Safe Extension of Screw Inches	Weight Per Dozen Pounds	List Price Complete Per Dozen	List Price Screw Ends Only Per Dozen
1 1/2	10	6	165	\$40.00	\$30.00
1 1/2	12	7	175	40.00	30.00
1 1/2	14	9	180	42.00	32.00
1 1/2	16	10	190	44.00	34.00
1 1/2	18	11	196	46.00	36.00
2	18	10	415	90.00	66.00

TIMBER BRACE FITTINGS

Diam. of Screw Inches	"A" Length of Screw Inches	Size of Timber Caps	Weight Per Dozen Pounds	List Price Per Dozen Sets	Timber Caps Only Per Dozen
1 1/2	14	4 x 4	170	\$47.00	\$15.00
1 1/2	14	6 x 6	185	52.00	20.00
1 1/2	18	6 x 6	205	56.00	20.00
2	18	6 x 6	375	86.00	20.00
2	18	8 x 8	385	96.00	30.00



3-WAY NUT—For use in close quarters where the regular wing nut cannot be used, a 3-way unbreakable nut made with three holes to fit a 1" rod can be furnished. No extra charge when specified in place of the wing nut.

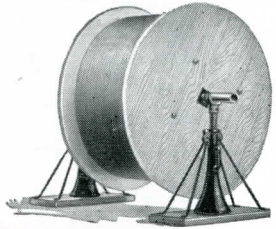


JOYCE JACKS

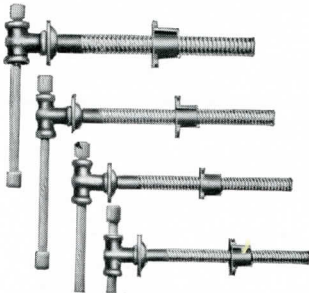
CABLE REEL SCREW JACKS

20, 28 and 36 Tons Capacity

These simple, sturdy, inexpensive jacks are carefully made and with the well-seasoned, heavily-braced wood base will give a long life of service. For Lever Type Cable Reel Jacks see page 9.



Size	Dia. of Screw In.	Hgt. O'all Closed In.	Rise In.	Cap. Tons	Wgt. About Lbs.	Size of Base In.	List Price
No. 1	2	15	5	20	44	2x10x20	\$13.50
No. 2	2	19	9	20	50	2x10x20	15.00
No. 3	2	21	11	20	55	2x10x22	16.00
No. 4	2	27	17	20	72	2x11x30	18.00
No. 5	2½	16	5	28	47	2x11x20	16 50
No. 6	2½	22	11	28	75	2x11x30	20.25
No. 7	2½	28	17	28	89	2x11x30	24.00
No. 8	3	29	15	36	130	3x11x30	36 00
No. 9	3	35	21	36	143	3x11x30	42.00



WROUGHT BENCH SCREWS

Built for joiners, manual training schools, home workshops, etc. Made of wrought steel with deep cut threads, movable collar and hardwood handle.

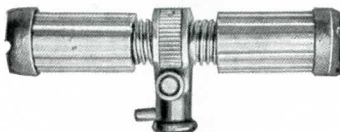
Diameter	Length Overall	Length of Thread	Wgt. Per Doz. About	List Price Per Doz.
1 in.	16 in.	11 in.	55 lbs.	\$10.40
1⅛ "	16 "	11 "	68 "	12.00
1¼ "	17 "	12 "	80 "	14.00
1½ "	21 "	15 "	125 "	21.00

JOYCE JACKS



PULLING AND PUSHING JACKS

For Locomotive and Car Repairs, Bridge and Dock Work, and Wrecking



Pusher



Push and Pull—Nos. 55 and 57



Push and Pull—Nos. 54 and 59-A (Sill Work)

Designed for pushing apart or pulling together structural members, sheets and machinery. Used also for straightening sides and ends of steel cars and bent or split steel center sills.

Type	Jack No.	Cap. Tons	Diam. Screw Ins.	Length Closed Ins.	Run of Screw Ins.	Wt. Lbs.	List Price
Pushers	12	12	2	10	4	21	\$14.00
	15	12	2	13	6	23	16.00
	16	12	2	16	10	33	19.00
	20	25	2½	20	12	45	32.00
	21	25	2½	24	16	51	41.00
Pullers	52	8	1½	25	12	38	22 00
	53	15	2¼	36	18	107	40.00
Push & Pull	57	8	1½	28	12	49	28.00
	55	10	1¾	40	19	67	38.00
	54	15	2½	28	15½	69	36.00
	59-A	10	2	28	15½	49	25.00



JOYCE JACKS

TRAVERSING JACKS

5, 10, 20 and 30 Tons Capacity



This style of jack is approved and furnished as standard equipment with practically all locomotives manufactured in the United States. The construction is sturdy and the design extremely simple—there is nothing to get out of order.

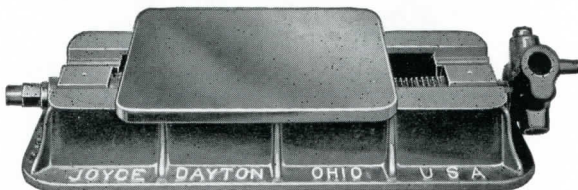
The principal parts are high-grade malleable iron and the steel screws have a milled acme form of thread. The ratchet can be used on either end of the base screw.

Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	Traverse Inches	List Price
504	5	12	4	56	10	\$39.00
505	5	14	6	60	10	39.00
510	10	18	8	65	10	41.00
520	20	22	10	110	10 $\frac{3}{4}$	45.00
520A	20	22	10	125	15	50.00
530	30	22	10	120	10 $\frac{3}{4}$	47.50
530A	30	22	10	135	15	52.50



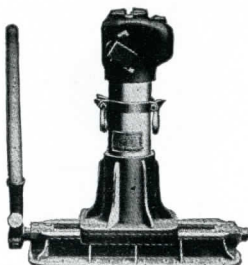
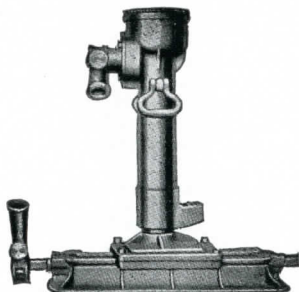
TRAVERSING BASES

10, 25, 35 and 50 Tons Capacity



Indispensable for moving a heavy load horizontally in rerailing locomotives, etc. Malleable iron base. Steel screw with milled head and spring ratchet operation. Any kind of jack can be set on the sliding plate.

Base No.	Cap. Tons	Hgt. Ins.	Horizontal Movement Inches	Wgt. Lbs.	Size of Plate	List Price
142	10	3½	10	50	7x 9	\$33 00
143	25	4	10¾	77	10x12	35.00
144	35	4	15	92	10x12	40.00
145	35	4	20	106	10x12	45.00
43	50	5⅜	15	180	13x13	80.00





JOYCE JACKS

SHORING JACKS

25 and 50 Tons Capacity
For Heavy Shoring

3070



All steel with milled thread, and is a much stronger and far safer tool than the ordinary cast iron screw. Standard equipment includes the plate shown in an 8x8-inch size for the No. 250, and in a 10x10-inch size for the No. 255. Special plates 10 x 10 - inch can be furnished for the No. 250, and 12x12-inch for the No. 255, when ordered.

Jack No.	Capacity Tons	Height Inches	Dia. Inches	Weight Pounds	List Price
250	25	24	2½	63	\$30 00
255	50	30	3	115	50.00

TELESCOPING JACKS

10 Tons Capacity



This jack has two screws threaded in opposite directions, one within the other, and possesses obvious advantages over a single screw. It may be used in more cramped places, as it is the shortest jack in use for its length of lift, the rise being equal to the height of the jack when down.

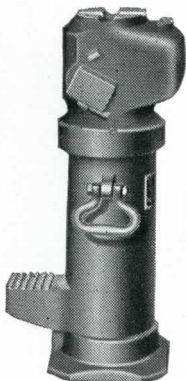
Jack No.	Capacity Tons	Height Inches	Rise Inches	Weight Pounds	List Price
45-A	10	12	12	55	\$36.00



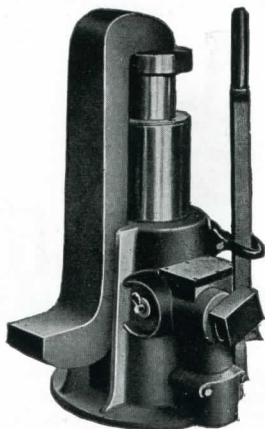
HYDRAULIC JACKS

25 to 100 Tons Capacity

For Heavy Industrial Use



"A" Type



"B" Type

Hydraulic Jacks are designed for extremely heavy lifting and have a high efficiency. They are used for moving bridges, lifting ships in dry docks, pulling oil well casing, moving heavy machinery, etc. They are built in two types: "A", the Ground Lift, single speed, inside pump type; and "B", triple speed, outside pump type. An auxiliary hook, shown above, can be furnished if wanted, with "B" type.

Jack No.	Cap. Tons	Rise Inches	Height Inches	Weight Pounds	List Price	List Price
2012A	20	12	25	204	\$165.00	"B" type: with hook
2018A	20	18	33	215	181.00	
3012A	30	12	26	267	225.00	
3018A	30	18	33	335	239.00	
6012A	60	12	27	332	345.00	
3012B	30	12	20	241	234.00	\$257.00
3018B	30	18	25	259	253.00	278.00
6012B	60	12	20	305	367.00	400.00
6018B	60	18	26	370	456.00	491.00
10012B	100	12	22	495	487.00	527.00
10018B	100	18	29	596	588.00	639.00

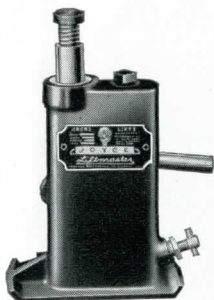


JOYCE JACKS

LIFTMASTER HYDRAULIC JACKS

1½ to 30 Tons Capacity

For Automobile, Truck, Bus and Industrial Use



No. JM-1.5-S



No. B-7-S



No. T-12

Joyce Liftmaster Hydraulic Jacks are the most efficient of all hand operated jacks. Especially effective in close quarters. Designed for truck and bus as well as passenger car and industrial lifting. Manufactured in telescoping ram, (B Series) standard ram (JM and T Series) and screw extension head cap styles. Attractively finished in pleasing colors.

Model	Tons Cap.	Low Hgt.	Lift	Screw Ext.	Total Hgt.	Wgt. With Hdle. Lbs.	List Price
JM-1.5-S	1½	6½"	5"	3"	14½"	9¾	\$ 4.25
JM-2-ST	2	7¾"	5¼"	2" step	15"	12	7.50
T-2.5-S	2½	8"	6"	3"	17"	16	12.15
T-4.5-S	4½	9"	5½"	2½"	17"	23	15.50
B-4.5	4½	7½"	8"	none	15½"	33	35.00
B-7-S	7	7"	8"	2¼"	17¼"	33	40.00
HB-7-S	7	8½"	10½"	2¼"	21¼"	30	42.00
T-7	7	8½"	5½"	none	14½"	25	19.50
T-7-S	7	9"	5½"	2½"	17"	25	20.20
T-12	12	10½"	6¾"	none	16¾"	38½	28.50
T-12-S	12	10¼"	6¾"	3½"	20½"	38½	29.55
LT-12-S	12	8"	5"	2½"	15½"	34½	29.55
MT-12-S	12	9"	6"	3½"	18½"	38	29.55
T-20	20	10¾"	6¾"	none	17½"	55	49.50
T-30	30	10¾"	6¾"	none	17½"	65	74.50

Pacific Coast Prices Slightly Higher

Strong 36" two-piece handle, which locks onto pump lever, supplied with each model.



LIFTMASTER HYDRAULIC JACKS

1 to 7 Tons Capacity

Garage and Curb Roller Type



No. 1400—Garage Type

A full line of Garage and Curb Jacks, of modern design and construction, with long low bodies which glide easily under low-slung axles and with an extra long operating handle which quickly sets the saddle in position and then jacks up the car or truck with a few short strokes. Five hydraulic models. No. 850 mechanically operated. Malleable iron frame. All working parts completely enclosed. Alloy casters, double ball-bearing race. Steel cap with swivel saddle. Finger tip control of release valve.

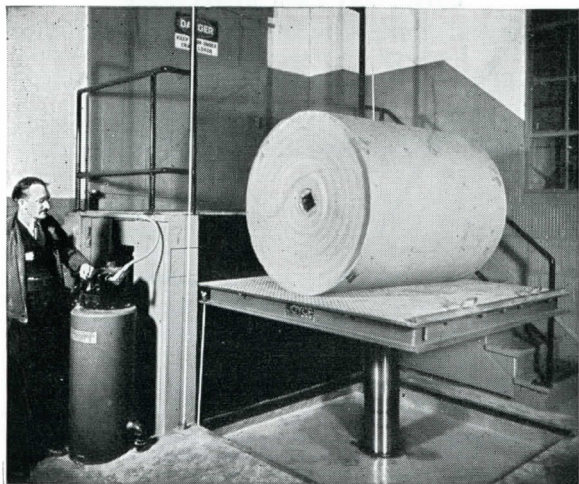
No.	Cap. Tons	Starting Height Inches	Lift Inches	Total Height Inches	Frame Length Inches	Wgt. Lbs.
600	1¼	3¼	15¾	19	26¼	62
800	2	3¾	18¼	22	31½	115
1000	3½	4½	15½	20	45	185
1400	5	5	17	22	47¾	220
1600	7	6	10	16	52	235
850	1	Top Foot 7½ 3½	Top Foot 12 13	Top Foot 19½ 16½	24¼	50

Prices upon request



JOYCE = JACKS

INDUSTRIAL ELEVATORS and MATERIAL HANDLING LIFTS



The above picture illustrates an oil hydraulic piston and cylinder upon which almost any kind of a table can be mounted. The power used in raising the piston can be either compressed air or the Electric Pumping Unit shown on the next page.

The higher capacity elevators have 5 ft. maximum lift; the lower capacities up to 18 ft. Maximum capacity, 25,000 lbs.

JOYCE engineers, trained in designing special lifting equipment and adapting short lift Hydraulic Elevators to almost any production or material handling problem, are at your service. Submit your problem, and we'll draw up the specifications and quote attractive prices promptly.



ELECTRIC PUMPING UNIT

For Operating Hydraulic Lifts



The JOYCE "JRE" Electric Pumping Unit is a revelation in the operation of Hydraulic Auto Lifts and short lift elevators. This unit operates independently of an air compressor in supplying a uniform oil pressure to the lifting unit.

Installation is greatly simplified, as only one line of oil pipe is required in connecting the Electric Pump to each Lift. One, two, or three Lifts can be operated from a single Electric Pumping Unit.

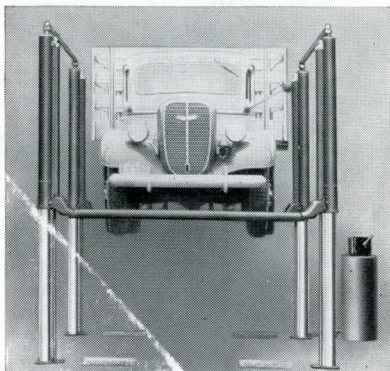
This unit consists of a $1\frac{1}{2}$ H.P., direct connected herringbone gear pump, positive dead man control, including thermal relays for protection against low voltage, and oil storage tank—all of which is built in one self-contained unit.

Maximum pressure is available at all times. Since the motor is in operation only when the lifting operation is actually being accomplished, operating and maintenance costs are held to a minimum, saving approximately 86% when compared with compressed air type Lifts.



JOYCE JACKS

SHOWMASTER PORTABLE 4-POST LIFT



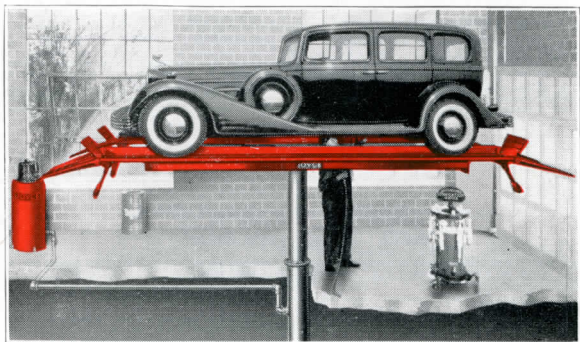
The Lift requires no excavation...merely a level area 9 ft. x 20 ft. with headroom of approximately 14 ft. with canopy, or 12 ft. without. The four posts are either lagged to the concrete or anchored with steel tie strips.

Hydraulic operation, powered by compressed air or JOYCE Electric Pumping Unit. Lifting capacity up to 8000 lbs., 58 inches height in 30 seconds. Un-balanced load overcome by equalizing device producing equal pressure at all four posts.

Built with Drive-On "A" Type or Free Wheel "B" Type superstructure for either Truck and Bus or Passenger Car use. Width between posts: for Truck—8' 6", for Auto 7' 4". Length, 15' 8". Illustrated Bulletin and prices upon request.

Truck Size Order No.	Operation	Super- structure	Auto Size Order No.
45-ATR	Air	Drive-On	45-AR
45-BTR	Air	Free Wheel	45-BR
45-ATJRE	Electric	Drive-On	45-AJRE
45-BTJRE	Electric	Free Wheel	45-BJRE

AUTOMOBILE LIFTS



Electrically-Operated Drive-On Type

JOYCE Automobile Lifts can be furnished for both electric and compressed air operation. Electric operation as shown in the picture is the most modern. Air operation can be furnished in three styles, Direct or Remote Control as desired.

All of these styles are available with $9\frac{1}{2}$ " and $10\frac{1}{2}$ " diameter pistons, DeLuxé type of Drive-On superstructure with $17\frac{1}{4}$ " runways and automatic and hand-operated wheel stops, or Free Wheel type superstructure equipped with universal blocks to accommodate low clearance axles and knee action cars.

Single and Two Piston Bus and Truck Lifts, with capacities up to 40,000 lbs., are made for both air and electric operation. Very popular with fleet owners and bus and truck maintenance organizations.

JOYCE Auto Lifts have many points of superiority in design and construction, and there is a wide range of types, sizes and prices to choose from. Complete illustrated Bulletins on auto, bus and truck lifts furnished on request.

MAIN OFFICE and FACTORY
THE JOYCE-CRIDLAND COMPANY
DAYTON, OHIO

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(Industrial)	Emil Georg, 204-101 Marietta St. Bldg.
CHICAGO:	
(Railroad)	Modern Supply Co., 100 S. Jefferson St.
(Industrial)	Harry B. Burlow, 19 S. Wells St.
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(Railroad)	Acme Railway Supply Co., 415 Midland Bldg.
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HEDGE & MATTHEIS CO.

70 ORANGE AVENUE

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